PATENT ABSTRACTS OF JAPAN

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(54) FACSIMILE EQUIPMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To permit a transmission side to automatically recognize whether or not the contents of secret information is printed-out by means of the operation of a receiver by reading a printing report destination from a printing report destination storing part after printing reception data by means of the operation of the receiver and generating a printing report to transmit it.

SOLUTION: A reception-report/printing-report destination storing means 10 stores the printing report destination and a reception report destination in the first half of reception data in the printing report destination storing part 17 and a reception report destination storing part 18 before receiving secret image data. When secret image data stored in a secret image data storing part 15 is outputted from a printing part 5, a printing report outputting means 14 generates the printing report, based on the contents of the printing report destination storing part 17, automatically executes calling and outputs it to a transmission side. Thus, when secret image data is transmitted, it is recognized whether or not the contents of secrecy information is printed-out by the operation of the receiver not by making a call, etc., but by the printing report.
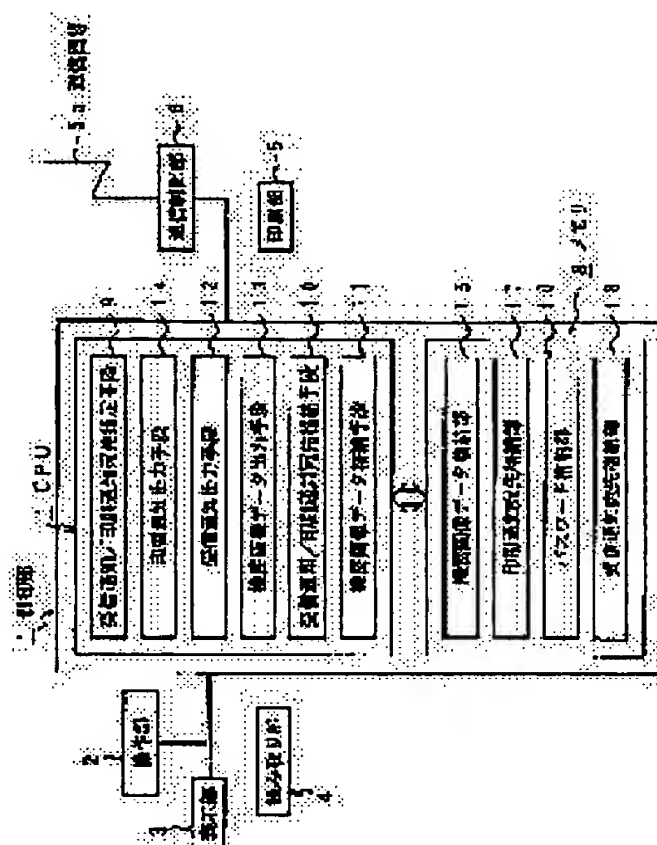
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English Translation of Japanese Patent
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[Title of the Invention]

Facsimile Apparatus

[Abstract]

[Object]   Provide a facsimile apparatus that can automatically confirm whether the contents of classified information have been printed out or not by an operation of the receiver without the need to confirm through a telephone call or the like.

[Means for Solution]   The facsimile apparatus includes reception report/printing report destination storage means 10 for reading out the reception report destination and printing report destination from reception data for storing the same in a reception report destination storage unit 18, and a printing report destination storage unit 17, respectively , in a memory 8; reception report output means 12, following storage of reception data in a classified image data storage unit 15 in memory 8, reading out reception report destination from reception report destination storage unit 18, and generating and printing out a reception report to report to a receiving party; and printing report output means 14, following printing of reception data by an operation of the receiving party, reading out the printing report destination from printing report destination storage unit 17 to generate and transmit a printing report.

[Claims]

[Claim 1]   A facsimile apparatus printing out reception data stored in a classified image data storage unit in a memory through an operation of

a receiving party, comprising :

reception report/printing report destination storage means to read out a reception report destination and a printing report destination from the reception data and storing the same in a reception report destination storage unit and a printing report destination storage unit, respectively, in a memory;

reception report output means, following storage of reception data in the classified image data storage unit in the memory, for reading out the reception report destination from the reception report destination storage unit, and generating and printing out a reception report to report to a receiving party; and

printing report output means, following printing of reception data by an operation of the receiving party, reading out the printing report destination from the printing report destination storage unit, and generating and transmitting a printing report.

[Claim 2] the facsimile apparatus according to claim 1, comprising reception report/printing report destination designation means for entering the reception report destination and printing report destination in transmission data.

[Detailed of the Description of the Invention]

[Technical Field to Which the Invention Belongs] The present invention relates to a facsimile apparatus with the capability of printing out reception data stored in a memory through an operation of a receiving party.

[Conventional Art] In the case where classified information that is for the eyes of only the receiving party is to be transmitted, indication to that effect is set at by the operation unit of the facsimile apparatus. Accordingly, reception data is stored in a classified image data storage unit

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in a memory at the reception side without printing out the same at the time of reception. Reception data is printed out through an operation by the receiving party such as entering a password or the like.

[Problem to be Solved by the Invention]　When classified information is transmitted at the conventional facsimile apparatus, the information is stored in the classified image data storage unit of the memory without being printed out at the time of reception. Therefore, confirmation of whether the information has been printed out or not could not be confirmed automatically at the transmitting side. There was a problem that confirmation of whether the receiving party has viewed the contents or not had to be made through a telephone call or the like.

An object of the present invention is to provide a facsimile apparatus that can automatically confirm whether the contents of classified information have been printed out or not by an operation of the receiving party without the need to confirm through a telephone call or the like.

[Means for Solving the Problem]　A facsimile apparatus of the present invention to achieve the object set forth above includes: reception report/printing report destination storage means to read out a reception report destination and a printing report destination from the reception data and storing the same in a reception report destination storage unit and a printing report destination storage unit, respectively, in a memory; reception report output means, following storage of reception data in the classified image data storage unit in the memory, for reading out the reception report destination from the reception report destination storage unit, and generating and printing out a reception report to report to a receiving party; and printing report output means, following printing of reception data by an operation of the receiving party, reading out the printing report destination from the printing report destination storage

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unit, and generating and transmitting a printing report.

[Embodiment of the Invention]　An embodiment of the present invention will be described hereinafter with reference to the drawings.　In the drawings, common elements have the same reference characters allotted.　Fig. 1 is a block diagram representing the capability and structure of a facsimile apparatus according to an embodiment.　To a control unit 1 that provides overall control of the facsimile apparatus are connected an operation unit 2, a display unit 3, a reader unit 4, a printer unit 5, and a communication control unit 6.　Communication control unit 6 is connected to a communication line 6a.

Control unit 1 includes a central processing unit 7 (hereinafter, designated as CPU 7) and a main storage device (hereinafter, designated as memory 8).　CPU 7 functions as reception report/printing report destination designation means 9, reception report/printing report designation storage means 10, classified image data storage means 11, reception report output means 12, classified image data output means 13, and printing report output means 14, according to the step in a control program.

Memory 8 includes a classified image data storage unit 15, a password storage unit 16, a printing report designation storage unit 17, and a reception report designation storage unit 18.

Reception report/printing report designation storage means 10 stores, prior to reception of classified image data, a printing report designation and a reception report designation located at the former half of the reception data into printing report designation storage unit 17 and reception report designation storage unit 18, respectively.

Classified image data storage means 11 stores the classified image data received via communication control unit 6 into classified image data

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storage unit 15.

When classified image data is stored in reception image storage unit 15, reception report output means 12 prints out the reception report through printer unit 5 based on the contents in reception report designation storage unit 18.

Classified image data output means 13 compares the password input through operation unit 2 with the password stored in password storage unit 16 to confirm whether the input password is already registered or not, and prints out the classified image data stored in classified image data storage unit 15, when already registered.

When the classified image data stored in classified image data storage unit 15 is printed out from printer unit 5, printing report output means 14 generates a printing report based on the contents of printing report designation storage unit 17 to issue a call automatically for output to the transmitting side.

Fig. 5 is a diagram to describe an example of a printing report transmitted to the transmitting side when the contents in the classified image data storage unit is printed out by an operation of the receiving party.

Fig. 2 is a flow chart representing an operation at the transmitting side. At step S1, CPU 7 senses whether a document has been set or not at reader unit 2 via a sensor not shown. When setting of the document is sensed, control proceeds to step S2. At S2, CPU 7 senses whether classified transmission has been designated or not via operation unit 2. When classified transmission is designated, control proceeds to step S3, otherwise, to step S11.

At step S3, CPU 7 conducts a classified transmission process as reception report/printing report designation means 9. At steps S4, S5, and

S6, input of a printing report designation, a reception report designation, and a FAX number, respectively, is prompted at display unit 3.

At steps S7-S10, CPU 7 calls the transmitting side based on the FAX number. If transmission is allowed, the classified image data is transmitted using a nonstandard function setting signal NSS of the protocol defined by ITU-T Recommendation T.30, triggered by depression of a start button.

At step S11, CPU 7 proceeds to the general image data transmission process. At steps S6-S10, the general image data transmission process is initiated.

Fig. 3 is a flow chart (1) representing the operation at the receiving side. At step S21, CPU 7 senses an incoming signal via communication control unit 6. Upon sensing an incoming signal, control proceeds to step S22. At step S22, CPU 7 analyzes the nonstandard function set signal NSS to check whether the reception data is classified image data or not. If the received data is classified image data, control proceeds to S23, otherwise, to step S29.

At step S23, CPU 7 proceeds to a classified image data receiving process. At step S24, CPU 7 functions as reception report/printing report designation storage means 10 to detect and store the printing report designation and reception report designation located at the header section in the reception data to store respective destinations in printing report destination storage unit 17 and reception report destination storage unit 18. At steps S25 and S26, reception of classified image data is initiated by classified image data storage means 11. The classified image data is stored in classified image data storage unit 15 in memory 8. At step S27, determination is made whether reception has ended or not. When ended, control proceeds to step S28. Reception report output means 12 reads out

the reception report destination from reception report destination storage unit 18 in memory 8, and generates a reception report for output from printer unit 8.

At step S29, CPU 7 proceeds to a general image data reception process.

Fig. 4 is a flow chart (2) of an operation at the receiving side. At step S31, CPU 7 functions as classified image data output means 13 to sense whether a password has been input or not. When the receiving party aware of the reception report enters a password through operation unit 2, control proceeds to step S32. At step S32, the input password is compared with the contents in the password registration unit in memory 8 to identify whether the input password is already registered or not. If the password is registered, control proceeds to step S33. At step S33, classified image data stored in memory 8 is read out to be output from printer unit 5.

At step S34, CPU 7 functions as printing report output means 14 to sense whether printing has ended or not. If the printing has ended, control proceeds to step S35 where the printing report destination is read out from memory 8. A printing report, as shown in Fig. 5, is generated. A call is issued automatically towards the transmitting side of the classified image data, and the report is transmitted by a general transmission process, if transmission is allowed.

[Advantage of the Invention] The present invention provides the advantage set forth below by the configuration set forth below. By a virtue of including reception report/printing report destination storage means to read out a reception report destination and a printing report destination from the reception data and storing the same in a reception report destination storage unit and a printing report destination storage unit,

respectively, in a memory; reception report output means, following storage of reception data in the classified image data storage unit in the memory, for reading out the reception report destination from the reception report destination storage unit, and generating and printing out a reception report to report to a receiving party; and printing report output means, following printing of reception data by an operation of the receiving party, reading out the printing report destination from the printing report destination storage unit, and generating and transmitting a printing report, confirmation of whether the contents of classified information, when classified image data has been transmitted, has been printed out by an operation of the receiving party through a printing report without having to confirm whether the contents of the classified information has been printed out or not.

[Brief Description of the Drawings]

Fig. 1 is a block diagram representing the function and structure of a facsimile apparatus according to an embodiment.

Fig. 2 is a flow chart representing an operation of the transmission side.

Fig. 3 is a flow chart (1) representing an operation of the receiving side.

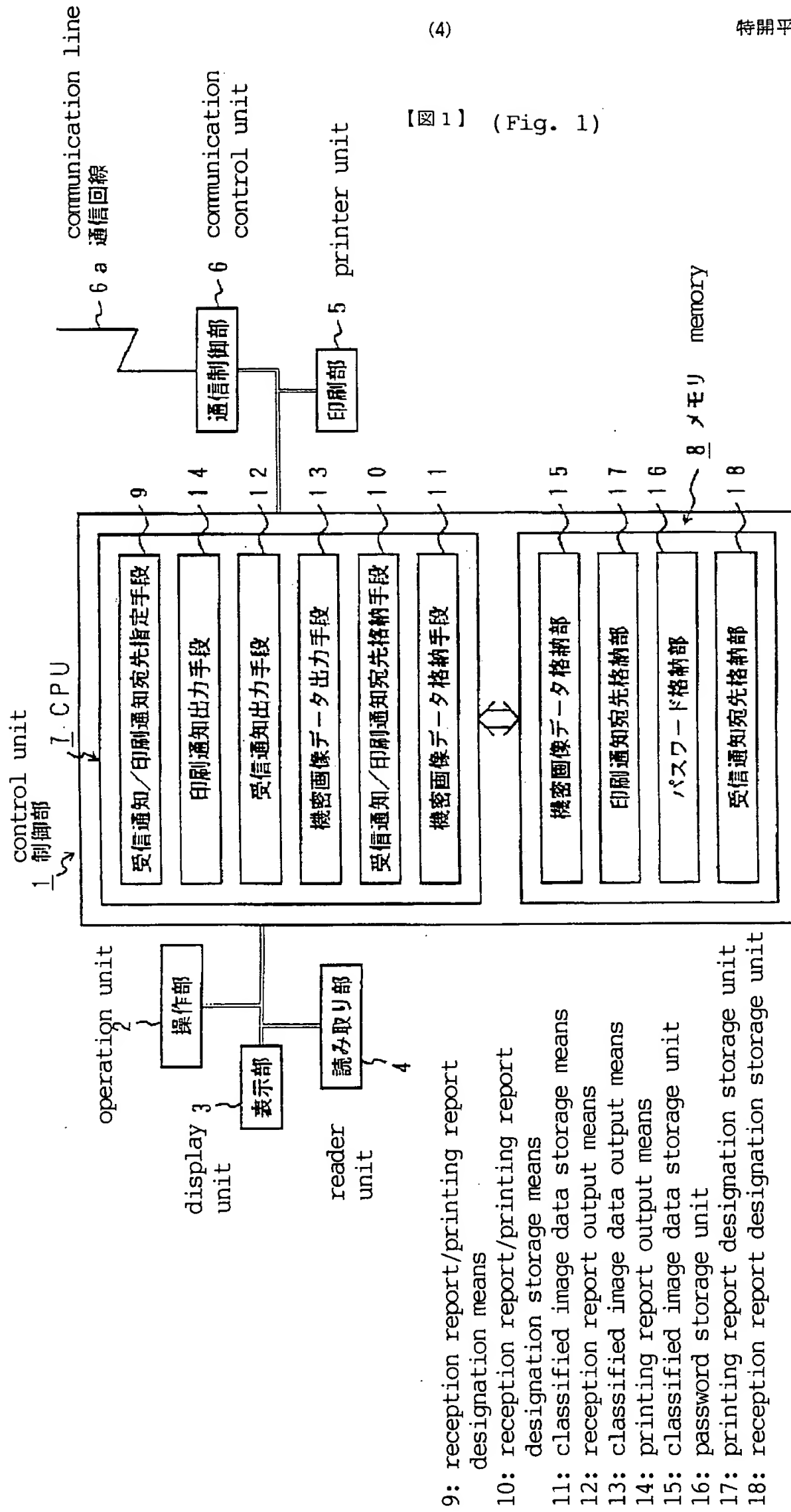Fig. 4 is a flow chart (2) representing an operation of the receiving side.

Fig. 5 is a diagram to describe an example of a printing report.

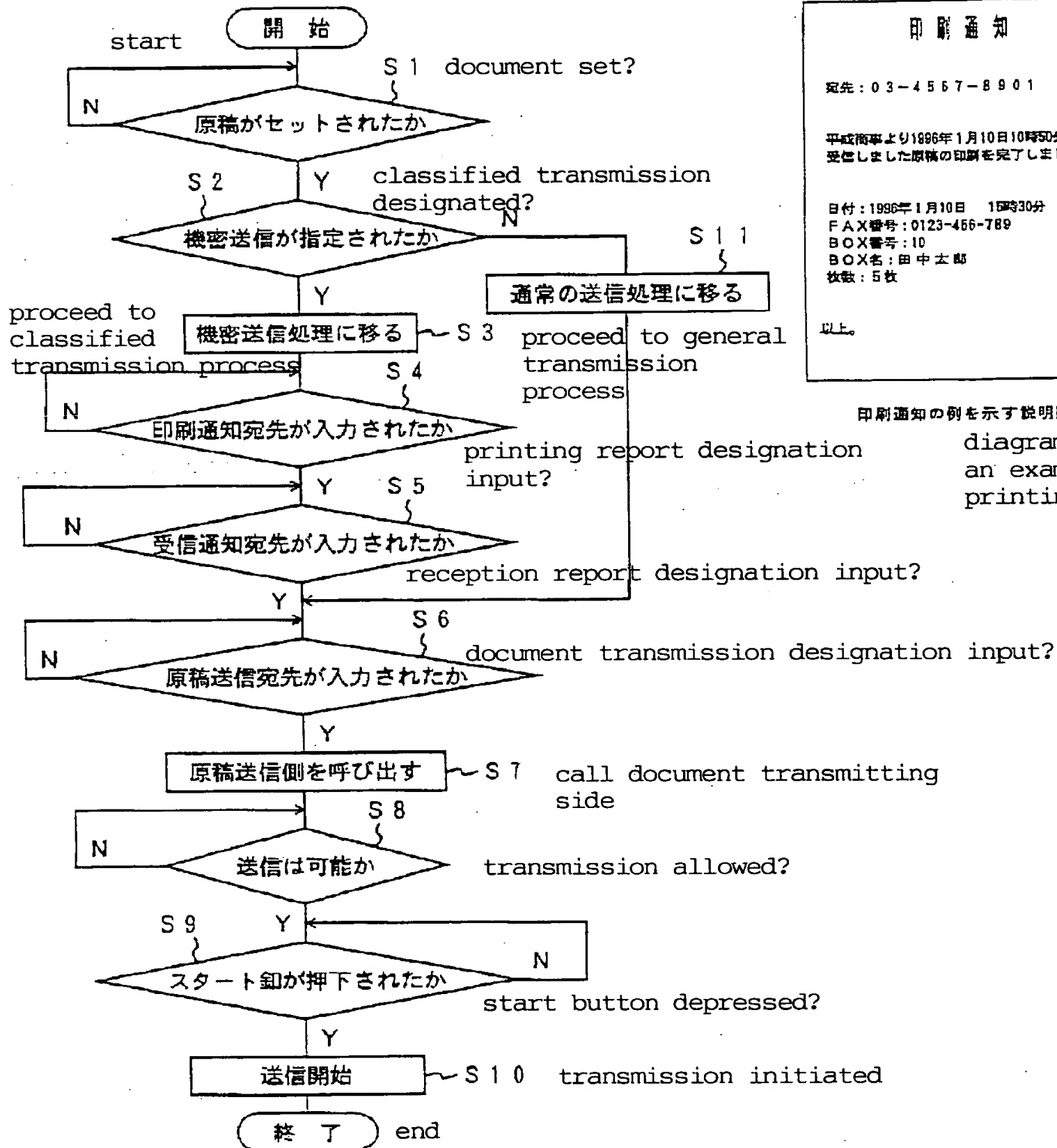[Description of Reference Characters]

1 control unit

8 CPU

9 memory

【図1】 (Fig. 1)

実施の形態によるファクシミリ装置の機能と構成を示すブロック図
block diagram representing the capability and structure
of a facsimile apparatus according to an embodiment

communication line
6 a 通信回線
6 communication control unit
通信制御部
5 printer unit
印刷部

control unit
1 制御部
1 CPU

受信通知／印刷通知宛先指定手段 9
印刷通知出力手段 14
受信通知出力手段 12
機密画像データ出力手段 13
受信通知／印刷通知宛先格納手段 10
機密画面データ格納手段 11

機密画像データ格納部 15
印刷通知宛先格納部 17
パスワード格納部 16
受信通知宛先格納部 18

8 メモリ memory

operation unit
2 操作部

display 3 unit
表示部

reader unit
4 読み取り部

9: reception report/printing report designation means
10: reception report/printing report designation storage means
11: classified image data storage means
12: reception report output means
13: classified image data output means
14: printing report output means
15: classified image data storage unit
16: password storage unit
17: printing report designation storage unit
18: reception report designation storage unit

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【図２】　(Fig. 2)　　　　　　　　　　　　　　　　【図５】　(Fig. 5)

start　　　　　　　開　始

S 1　document set?
N　　　原稿がセットされたか

S 2　　　　　　　　　Y　classified transmission
　　　　　　　　　　　　designated?
　　　機密送信が指定されたか　　N　　　　　　　S 1 1

proceed to　　　　　Y　　　通常の送信処理に移る
classified
transmission process　機密送信処理に移る　　S 3　proceed to general
　　　　　　　　　　　　　　S 4　　　　transmission
N　　　　　　　　　　　　　　　　　　process
　　　印刷通知宛先が入力されたか

　　　　　　　　　　　　　printing report designation
　　　　　　　　　Y　S 5　input?
N
　　　受信通知宛先が入力されたか

　　　　　　　　　　　reception report designation input?
　　　　　　　Y

S 6
N　　　　　　　　　document transmission designation input?
　　　原稿送信宛先が入力されたか

　　　　　　　　Y

原稿送信側を呼び出す　　S 7　call document transmitting
　　　　　　　S 8　　　　　side
N
　　　送信は可能か　　　　transmission allowed?

S 9　　Y
N
　　　スタート釦が押下されたか

　　　　　　　　　　start button depressed?
　　　　　Y

送信開始　　S 1 0　transmission initiated

終　了　end

送信側の動作を示すフローチャート
flow chart (1) representing an operation
at the transmitting side

印　刷　通　知

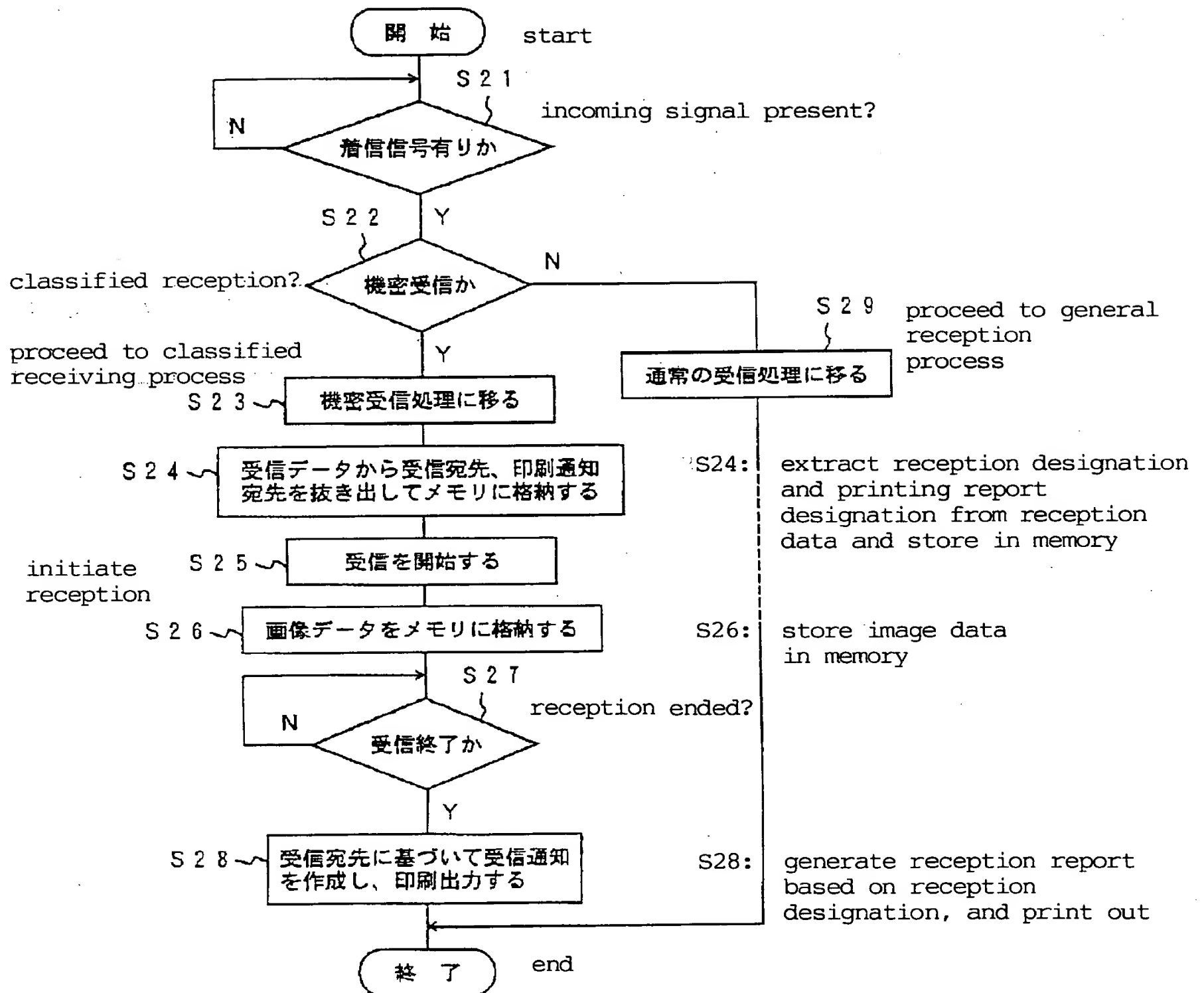宛先：０３－４５６７－８９０１

平成商事より1996年1月10日10時50分に
受信しました原稿の印刷を完了しました。

日付：1996年1月10日　15時30分
ＦＡＸ番号：0123-456-789
ＢＯＸ番号：10
ＢＯＸ名：田中太郎
枚数：５枚

以上。

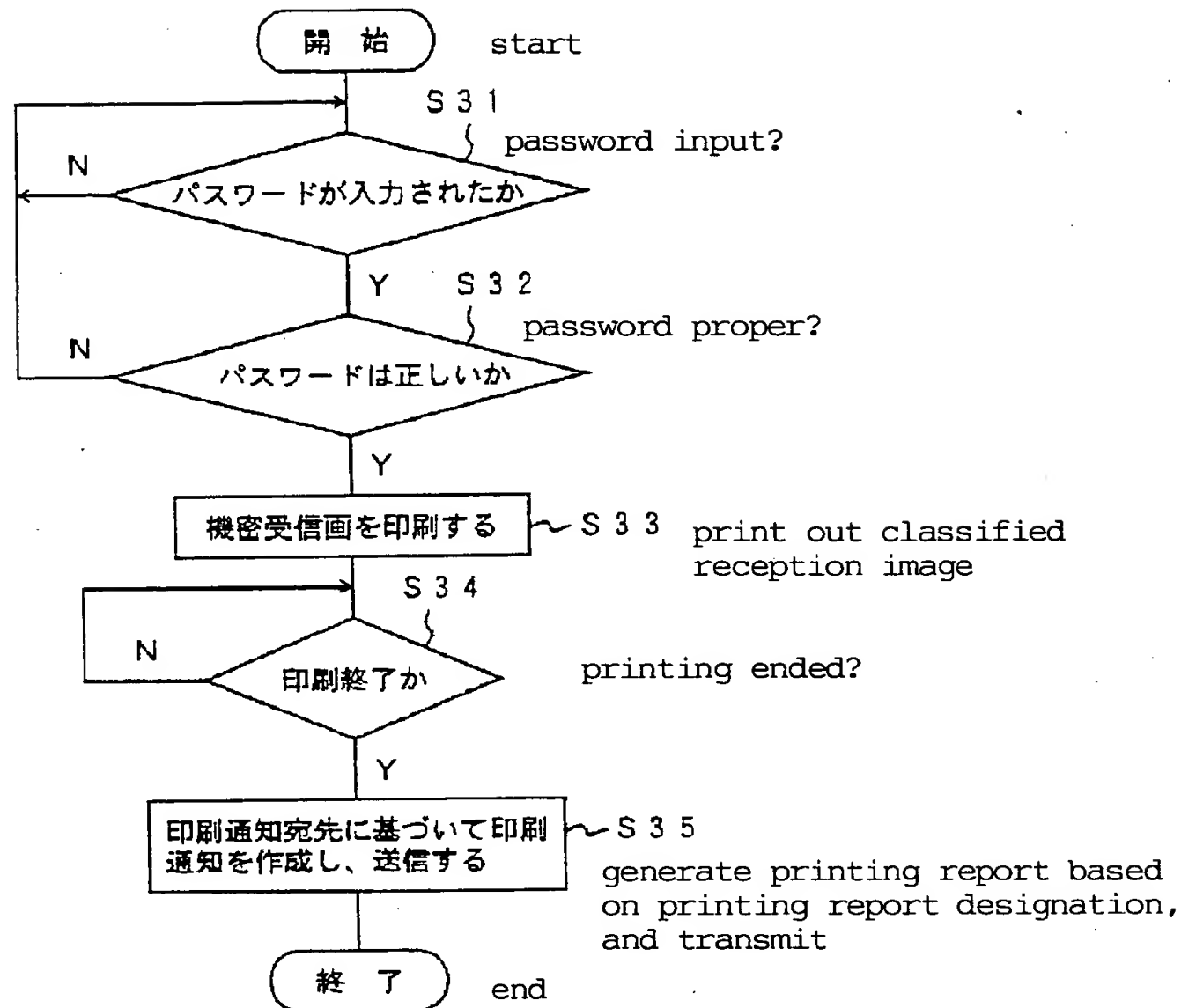印刷通知の例を示す説明図

diagram to describe
an example of a
printing report

【図3】　(Fig. 3)

start

S21　incoming signal present?

N　着信信号有りか

S22　Y

classified reception?　機密受信か　N

proceed to classified receiving process
S23　機密受信処理に移る

S29　proceed to general reception process

通常の受信処理に移る

S24　受信データから受信宛先、印刷通知宛先を抜き出してメモリに格納する

S24:　extract reception designation and printing report designation from reception data and store in memory

initiate reception　S25　受信を開始する

S26　画像データをメモリに格納する

S26:　store image data in memory

S27　reception ended?

N　受信終了か

Y

S28　受信宛先に基づいて受信通知を作成し、印刷出力する

S28:　generate reception report based on reception designation, and print out

end

受信側の動作を示すフローチャート(1)

flow chart representing an operation at the receiving side

【図４】　(Fig. 4)

start

S31　password input?

パスワードが入力されたか　N

Y　S32　password proper?

パスワードは正しいか　N

Y

機密受信画を印刷する　～S33　print out classified reception image

S34

印刷終了か　N　printing ended?

Y

印刷通知宛先に基づいて印刷通知を作成し、送信する　～S35
generate printing report based on printing report designation, and transmit

終了　end

受信側の動作を示すフローチャート(2)
flow chart (2) of an operation at the receiving side

(54)【発明の名称】　ファクシミリ装置

(57)【要約】
【課題】　機密情報の内容が受信者の操作により印刷出力されたか否かを電話等により確認しなくとも自動的に確認できるファクシミリ装置を提供する。
【解決手段】　受信通知宛先及び印刷通知宛先を受信データから読み取ってそれぞれメモリ8の受信通知宛先格納部18、印刷通知宛先格納部17に格納する受信通知／印刷通知宛先格納手段10と、受信データをメモリ8の機密画像データ格納部15に格納した後、受信通知宛先格納部18から受信通知宛先を読み出し、受信者に通知する受信通知を作成して印刷出力する受信通知出力手段12と、受信者の操作による受信データの印刷後、印刷通知宛先格納部17から印刷通知宛先を読み出し、印刷通知を作成して送信する印刷通知出力手段14と備える。

実施の形態によるファクシミリ装置の機能と構成を示すブロック図